

Patent Abstracts of Japan

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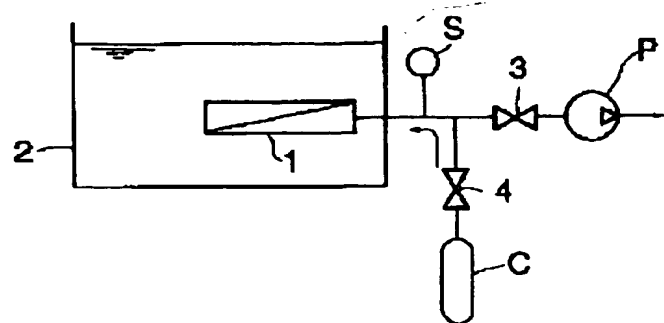
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TITLE : DETECTION OF FAILURE OF
SEPARATING MEMBRANE OF
MEMBRANE FILTER DEVICE



ABSTRACT : PURPOSE: To enable the easy and sure detection of the failure of the separating membrane of a membrane filter device without individual differences by bringing liquid into contact with one surface of the separating membrane, supplying air under pressurization to the inside of the pipe on a filtrate recovery side from an air supply device for back washing, then detecting a pressure change after hermetically holding the pipe inside.

CONSTITUTION: The membrane filter device 1 is immersed into the liquid to be treated and the air is supplied under pressurization to the device 1 from an air compressor C for back washing in order to feed bubbles into the liquid through the separating membrane. The gauge pressure drops sharply first, then gradually slowly, and the generation of the bubbles stops when the air is stopped and the inside of the pipe on the filtrate recovery side is hermetically maintained. The relation between the lapse of the time and the pressure drop is qualitatively plotted on a graph. Judgment is made that there is no abnormality if the pressure does not fall below the min. supply pressure for back washing, and that there is the abnormality of the pressure falls.

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